

### Analysis Report

2425 New Holland Pike, Lancaster, PA 17691 • 757-656-2300 • Fax: 717-656-6766 • www.EurotineitS.com/LanciabsEnv

Partial Report

Sample Description:

Ex. 6 - Personal Privacy

Tetra Tech, Inc. ELLE Sample #: ELLE Group #:

Matrix: Water

Ex. 6 - Personal Privacy

**Project Name:** 

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time: SDG#:

12/29/2017 10:00 12/27/2017 10:15 Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. C	Organics EPA	537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-	ethyl perfluorooctanesulfonan	nidoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N	-methyl perfluorooctanesulfor	namidoacetic Acid.		
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
	ecovery for PFTeDA and PFHxS in	•			

The recovery for PFTeDA and PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered prelimimary as this sample will be re-extracted.

#### **Laboratory Sample Analysis Record**

Method CAT Batch# Dilution **Analysis Name Analysis** Analyst Date and Time Factor No. 18003005 14070 Full List PFAS - DW EPA 537 Version 1.1 01/05/2018 04:55 Marissa C Drexinger

Sample Description:

Ex. 6 - Personal Privacy

375-73-5

335-76-2

Wolverine World Wide Tannery

Tetra Tech, Inc. ELLE Sample #: ELLE Group #:

Matrix: Water

2

Ex. 6 - Personal Privacy

Submittal Date/Time:

Collection Date/Time:

**Project Name:** 

SDG#:

12/29/2017 10:00 12/27/2017 10:50

Ex. 6 - Personal Privacy

CAT Dilution Method **Analysis Name CAS Number** Result Factor No. **Detection Limit** ng/l Misc. Organics EPA 537 Version 1.1 ng/l 14070 **NEtFOSAA** 2991-50-6 N.D. 2 NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid. 14070 **NMeFOSAA** 2355-31-9 N.D. 2 NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.

N D

Reference ID:

14070

14070

1891721110118084020

Perfluorobutanesulfonate

Perfluorodecanoic acid



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**ELLE Sample #:** 

**ELLE Group #:** Matrix: Water

Tetra Tech, Inc.

Ex. 6 - Personal Privacy

**Project Name:** 

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time: SDG#:

12/29/2017 10:00 12/27/2017 10:50 Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (	Organics	EPA 537 Version 1.1	ng/l	ng/l	
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic ac	id 376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
The r	ecovery for PFTeDA and PF	HxS in the laboratory fortified			

blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered prelimimary as this sample will be re-extracted.

#### **Laboratory Sample Analysis Record**

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18003005	01/05/2018 05:18	Marissa C Drexinger	1

Sample Description:

Ex. 6 - Personal Privacy

Tetra Tech, Inc. ELLE Sample #: **ELLE Group #:** 

Matrix: Water

Ex. 6 - Personal Privacy

**Project Name:** 

**Wolverine World Wide Tannery** 

Submittal Date/Time: 12/29/2017 10:00 Collection Date/Time: 12/27/2017 11:10 SDG#: Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. C	Organics	EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym	n for N-ethyl perfluorooctanesulfona	midoacetic Acid		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronyr	n for N-methyl perfluorooctanesulfo	namidoacetic A	oid.	
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1

Reference ID:

1891721110118084020



## Analysis Report

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Sample Description:

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Tetra Tech, Inc. ELLE Sample #: ELLE Group #:

Matrix: Water

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Project Name:

**Wolverine World Wide Tannery** 

Submittal Date/Time: Collection Date/Time:

12/29/2017 10:00 12/27/2017 11:10

SDG#:

Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (	Organics	EPA 537 Version 1.1	ng/l	ng/l	
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic a	acid 376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	d 72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic ac	id 2058-94-8	N.D.	2	1

The recovery for PFTeDA and PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered prelimimary as this sample will be re-extracted.

#### **Laboratory Sample Analysis Record**

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18003005	01/05/2018 05:29	Marissa C Drexinger	1

Sample Description:

Ex. 6 - Personal Privacy

Tetra Tech, Inc. ELLE Sample #: ELLE Group #:

Matrix: Water

Ex. 6 - Personal Privacy

**Project Name:** 

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time: SDG#:

12/29/2017 10:00

Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. C	<b>Drganics</b>	EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym	n for N-ethyl perfluorooctanesulfonar	midoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronyr	n for N-methyl perfluorooctanesulfo	namidoacetic Acid.		
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
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14070	Perfluorotetradecanoic aci	d 376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
The r	ecovery for PFTeDA and PF	HxS in the laboratory fortified			

The recovery for PFTeDA and PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as

Reference ID: 1891721110118084020



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Partial Report

Sample Description:

**Project Name:** 

Ex. 6 - Personal Privacy

Tetra Tech, Inc.

**ELLE Sample #: ELLE Group #:** 

Matrix: Water

Ex. 6 - Personal Privacy

**Wolverine World Wide Tannery** 

Submittal Date/Time: Collection Date/Time: 12/29/2017 10:00 12/27/2017 11:10

SDG#:

Ex. 6 - Personal Privacy

CAT No.

No.

14070

**Analysis Name** 

**CAS Number** 

Result

Method **Detection Limit**  Dilution Factor

noted on the QC Summary. The data reported should be considered

prelimimary as this sample will be re-extracted.

**Laboratory Sample Analysis Record** 

CAT Analysis Name

Full List PFAS - DW

Method

EPA 537 Version 1.1

Trial#

Batch# 18003005

Analysis Date and Time 01/05/2018 05:41 Analyst

Dilution Factor

Marissa C Drexinger

Reference ID: 1891721110118084020

# Environmental Analysis Request/Chain of Custody

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# Environmental Analysis Request/Chain of Custody

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# Environmental Analysis Request/Chain of Custody

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# Sample Administration Receipt Documentation Log

Doc Log ID: 205017

Group Number(s): 1891721

Client: MSG/TETRA TECH

**Delivery and Receipt Information** 

Delivery Method: Fed Ex Arrival Timestamp: 12/29/2017 10:00

Number of Packages:  $\underline{4}$  Number of Projects:  $\underline{1}$ 

State/Province of Origin: MI

**Arrival Condition Summary** 

Shipping Container Sealed: Yes Sample IDs on COC match Containers: Yes Custody Seal Present: Yes Sample Date/Times match COC: Yes

Custody Seal Intact: Yes VOA Vial Headspace ≥ 6mm: N/A

Samples Chilled: Yes Total Trip Blank Qty: 0

Paperwork Enclosed: Yes | Air Quality Samples Present: No

Samples Intact: Yes

Missing Samples: No Extra Samples: No

Discrepancy in Container Qty on COC: No

Unpacked by Wendy Wakeley (1669) at 11:06 on 12/29/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler#	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.6	DT	Wet	Υ	Bagged	N
2	DT146	1.3	DT	Wet	Υ	Bagged	N
3	DT146	0.4	DT	Wet	Υ	Bagged	N
4	DT146	1.0	DT	Wet	Υ	Bagged	N



**BMQL** 

ppb

basis

Dry weight

parts per billion

as-received basis.

otherwise noted under the individual analysis.

Lancaster Laboratories Environmental

#### **Explanation of Symbols and Abbreviations**

milligram(s)

The following defines common symbols and abbreviations used in reporting technical data:

Below Minimum Quantitation Level

		9	9(0)
С	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	non-detect
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	μg	microgram(s)
m3	cubic meter(s)	μL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm		be equivalent to milli	kilogram (mg/kg) or one gram per million grams. For grams per liter (mg/l), because one liter of water has a weight uivalent to one microliter per liter of gas.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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### **Data Qualifiers**

Qualifier	Definition
С	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
Ε	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
Р	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised
	due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.